A 8620-3

REPORT

NMTBA
The Association For Manufacturing Technology

Direct Dial: (703)827-5260

STATISTICS

No. 142-89 October 25, 1989

U.S. FOREIGN TRADE -- AUGUST 1989

U.S. FOREIGN TRADE IN MANUFACTURING TECHNOLOGY
(Millions of U.S. Dollars)

	August 1989	July 1989	% Change July-Aug.	Year to Date '89	Year to Date '88	% Change '88-'89
METAL CUTTING MACHINE TOOLS						
Imports	$185.6	$182.6	1.6%	$1,289.8	$1,035.9	24.5%
Exports	$ 42.4	$ 49.2	(13.8%)	$ 311.6	$ 264.8	17.7%
Balance	($143.2)	($133.4)	7.3%	($ 978.2)	($ 771.1)	26.9%
METAL FORMING MACHINE TOOLS						
Imports	$ 54.7	$ 46.9	16.6%	$390.0	$305.4	27.7%
Exports	$ 40.9	$ 35.3	15.9%	$322.5	$208.6	54.6%
Balance	($ 13.8)	($ 11.6)	19.0%	($ 67.5)	($ 96.8)	(30.3%)
MACHINE TOOL TOTAL						
Imports	$240.3	$229.5	4.7%	$1,679.7	$1,341.3	25.2%
Exports	$ 83.3	$ 84.4	(1.3%)	$ 634.1	$ 473.4	33.9%
Balance	($157.0)	($145.1)	8.2%	($1,045.6)	($ 867.9)	20.5%
NUMERICALLY CONTROLLED MACHINE TOOLS						
Imports	$120.8	$133.4	(9.4%)	$887.9	NA	NA
Exports	$ 24.7	$ 19.3	28.0%	$156.5	NA	NA
Balance	($ 96.1)	($114.1)	(15.8%)	($731.4)	NA	NA
OTHER MANUFACTURING TECHNOLOGY						
Imports	$111.1	$110.0	1.0%	$992.1	NA	NA
Exports	$112.4	$104.0	8.1%	$805.7	NA	NA
Balance	$ 1.3	($ 6.0)	NM	($186.4)	NA	NA

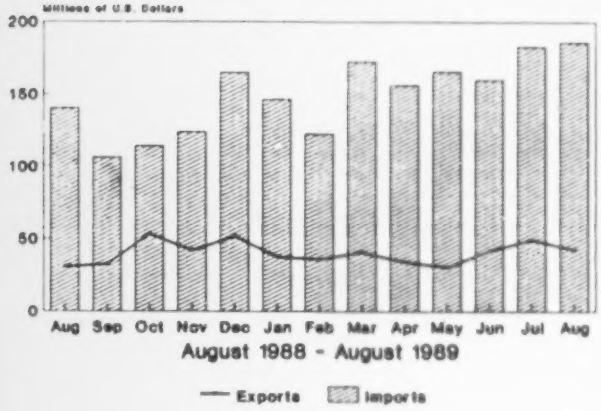
Note: Numerically controlled machine tools includes both metal cutting and metal forming types, and are included in the respective totals. NM = not meaningful; NA = not available; ( ) denotes negative

During August 1989 exports of metal forming machine tools were up sharply, while exports of metal cutting machine tools were down sharply compared with July. Imports of both metal forming and metal cutting machines were higher. Exports of NC machines rose 28% compared with July. The overall U.S. machine tool trade deficit rose 8% from July to August and is 21% higher this year than last.

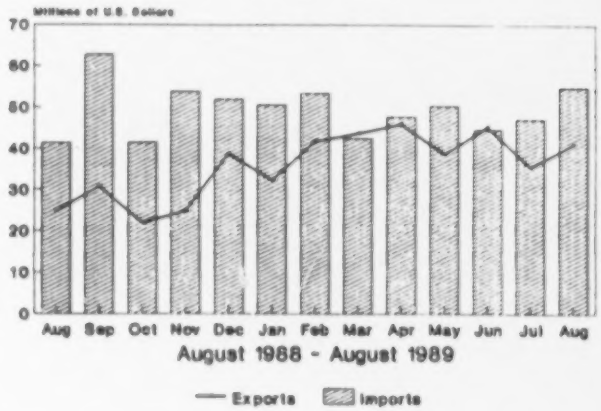
7901 WESTPARK DRIVE, McLEAN, VIRGINIA 22102-4269 / PHONE (703) 893-2900 / TLX: 353819 / FAX (703)893-1151

U.S. MONTHLY TRADE IN MACHINE TOOLS

METAL CUTTING



METAL FORMING



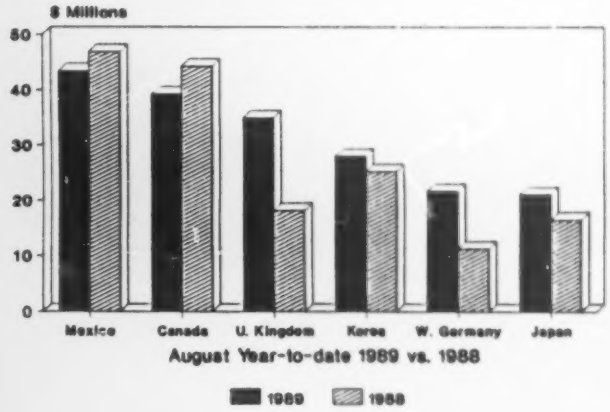
METAL CUTTING

Exports

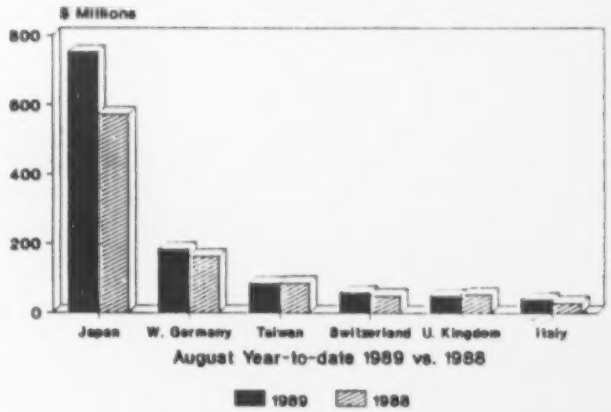
August exports of metal cutting machines fell to $42.4 million from July's $49.2 million. Exports of grinding and polishing machines dropped from $19.5 million in July to $12.6 million in August; lathe exports fell to $2.5 million from $3.7 million in July. Exports of machining centers fell 22% to $3.7 million, while exports of transfer machines rose to $4.9 million from zero in July. Exports to Mexico fell from $10.0 million in July to $4.6 million in August (see attached summary sheets), while Korean exports tumbled from $4.5 million in July to $2.0 million in August. Year-to-date exports are down 11% to Canada and 7% to Mexico but up 92% and 93% to the United Kingdom and West Germany, respectively, over last year.

METAL CUTTING MACHINE TOOL FOREIGN TRADE

LEADING U.S. EXPORT MARKETS



LEADING U.S. IMPORT SOURCES



Imports

U.S. metal cutting machine tool imports in August were $185.6 million, an all-time high, up 2% from July's record $182.6 million. Japan supplied 60%, or $110.6 million, of the total; West Germany's share was $27.2 million, or 15%. Year-to-date metal cutting imports are up 25% from last year. Imports of machining centers are 21% higher this year than last, at $269.1 million; imports of lathes are up 31%, to $337.4 million. Year-to-date imports are sharply higher from France (up 122% to $17.5 million); Korea (97%, $16.9 million); and Singapore (96%, $10.4 million).

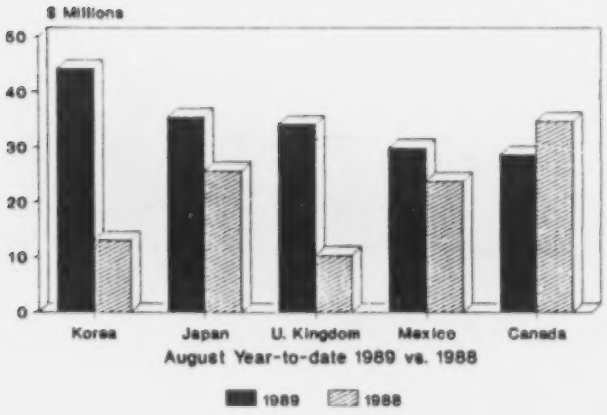
METAL FORMING

Exports

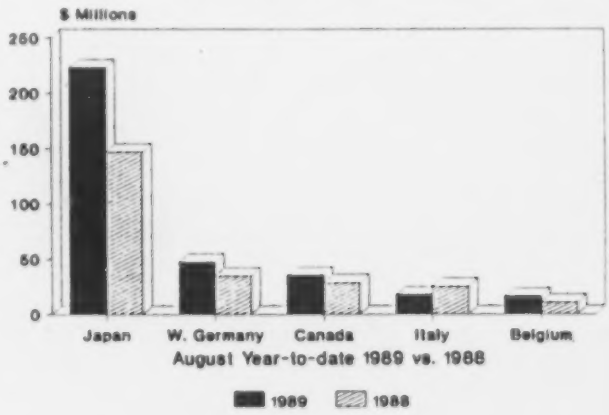
U.S. exports of metal forming machine tools rose 16% from July to August, to $40.9 million; year-to-date exports are up 55% to $322.5 million. Taiwan was the largest market in August at $5.7 million (up from $0.4 million in July). Mexico rebounded from $2.9 million in July with $4.7 million in August. Korea remains the leading export market for forming machines during 1989 at $44.2 million. Exports of used or rebuilt machine tools through August are more than five times higher this year than last, at $51.9 million. Exports of punching and shearing machines are up 34% over last year, at $40.7 million.

METAL FORMING MACHINE TOOL FOREIGN TRADE

LEADING U.S. EXPORT MARKETS



LEADING U.S. IMPORT SOURCES



Imports

August metal forming imports rose 17% over July to $54.7 million, buoyed by an almost three-fold increase in imports of presses to $23.6 million. Japan supplied 61%, or $33.5 million of U.S. forming imports in August. Year-to-date imports compared with last year are up 52% from Japan (to $222.5 million); 51% from Belgium (to $15.7 million); 36% from West Germany (to $46.9 million); 27% from Taiwan (to $5.9 million); and 23% from Canada (to $34.9 million). Metal forming imports are down 70% from France (to $1.2 million); 31% from Italy (to $17.1 million); and 27% from Switzerland (to $10.7 million). Imports from Brazil shot to $4.4 million in August, up from zero in July.

Other Manufacturing Technology

Exports

U.S. exports of Other Manufacturing Technology in August rose 8% from July to $112.4 million, resulting in a rare trade surplus for the United States of $1.3 million. Exports of machine tool parts and accessories totalled $72.6 million in August, up 6% over July and 32% over June. Canada ($8.2 million), West Germany ($7.2 million), the United Kingdom ($6.7 million) and Mexico ($4.9 million) were the largest parts markets in August. Also showing solid export growth were: laser, light or photon beams, up 151% to $5.9 million; extruders for processing thermoplastics, up 55% to $3.9 million; robots, up 41% to $4.7 million; profile projectors, up 186% to $1.1 million; and industrial process control instruments, up 37% to $5.0 million. Exports of numerical controls fell 28% from July to August to $3.1 million.

Imports

U.S. imports of Other Manufacturing Technology rose 1% from July to $111.1 million. Imports of parts and accessories jumped 15% to $41.6 million, due largely to a three-fold increase in parts imports from Canada (to $5.5 million.) Imports of injection molding machinery for thermoplastics increased 15% to $28.7 million, while imports of injection molding machinery for rubber or other thermosetting declined 18% to $8.8 million. Imports of numerical controls fell to $2.6 million, the lowest monthly total since January 1989. Japan supplied $50.0 million, or 45%, of U.S. Other Manufacturing Technology during August.

MONTHLY FOCUS

U.S. Balance of Trade in Other Manufacturing Technology

During August, Other Manufacturing Technology recorded a $1.3 million trade surplus with the rest of the world (see page 1). But as the table below shows, for the first eight months of 1989 the U.S. has a trade deficit with the rest of the world of $186.4 million in Other Manufacturing Technology . Values in the table below are in millions of dollars.

Product	Exports	Imports	Balance
Machine tool parts and accessories	$477.6	$419.4	$ 58.2
Machines for testing and balancing	67.2	15.5	51.8
Injection molding machinery	47.5	255.4	(207.8)
Robots and parts	42.5	150.5	(108.0)
Extruders for thermoprocessing	35.6	46.3	(10.6)
Blow or vacuum molding machines	33.4	47.1	(13.6)
Laser, light or photon beam	30.7	14.7	16.0
Industrial process control instr.	28.8	4.0	24.8
Numerical controls	28.4	34.4	(5.9)
Quenching and cutting oils	7.6	0.1	7.5
Profile projectors	5.8	3.5	2.3
Ultrasonic processes	0.5	1.4	(1.0)
Totals	$805.7	$992.1	($186.4)

Note: ( ) denotes deficit. Individual items may not add to totals due to rounding

1989 EXPORTS

METAL CUTTING

COUNTRY	AUGUST	JULY	PERCENTAGE CHANGE	Y-T-D '89	Y-T-D '88	PERCENTAGE CHANGE
Mexico	$ 4,647,537	$ 10,048,354	-53.75%	$ 43,388,314	$ 46,873,000	-7.43%
Canada	4,484,743	4,896,096	-8.40	39,198,836	44,191,000	-11.30
U.K.	7,724,490	6,576,804	17.45	34,929,364	18,165,000	92.29
Korea	1,956,168	4,489,107	-56.42	27,979,266	25,213,000	10.97
W Germany	5,697,246	3,690,776	54.36	21,698,894	11,265,000	92.62
Japan	2,712,640	2,734,873	-0.81	21,116,107	16,532,000	27.73
China	2,925,785	2,243,802	30.39	18,804,866	15,044,000	25.00
Italy	1,964,120	444,196	342.17	10,053,899	5,829,000	72.48
France	723,595	329,073	119.89	9,521,298	5,148,000	84.95
India	1,068,831	2,798,869	-61.81	8,025,989	4,436,000	80.93
Australia	777,373	1,606,471	-51.61	7,424,646	2,483,000	199.02
Brazil	687,088	1,899,441	-63.83	6,640,888	4,479,000	48.27
Singapore	623,966	327,952	90.26	5,907,832	4,179,000	41.37
Taiwan	367,423	738,549	-50.25	5,650,175	6,773,000	-16.58
Belgium	460,297	710,049	-35.17	5,226,156	3,715,000	40.68
Venezuela	100,268	43,033	133.00	4,675,429	11,128,000	-57.99
Indonesia	609,600	175,800	246.76	3,774,110	322,000	1,072.08
Netherlands	51,176	172,386	-70.31	3,425,833	1,789,000	91.49
Spain	23,040	1,299,164	-98.23	2,773,112	1,714,000	61.79
Switzerland	133,557	154,267	-13.42	2,754,336	2,050,000	34.36
Thailand	326,122	431,550	-24.43	1,876,029	447,000	319.69
USSR	490,575	0	NA	1,219,935	1,092,000	11.72
Austria	108,050	404,431	-73.28	983,240	784,000	25.41
Malaysia	194,724	101,840	91.21	723,815	270,000	168.08

METAL FORMING

COUNTRY	AUGUST	JULY	PERCENTAGE CHANGE	Y-T-D '89	Y-T-D '88	PERCENTAGE CHANGE
Korea	$ 3,241,699	$ 4,938,955	-34.36%	$ 44,205,349	$ 12,991,000	240.28%
Japan	982,993	2,093,385	-53.04	35,374,307	25,673,000	37.79
U.K.	3,503,312	4,464,208	-21.52	34,079,789	10,255,000	232.32
Mexico	4,674,927	2,892,435	61.63	29,749,294	23,764,000	25.19
Canada	2,588,000	5,316,299	-51.32	28,596,693	34,732,000	-17.66
W Germany	3,488,703	1,677,952	107.91	17,284,022	16,786,000	2.97
Taiwan	5,650,936	413,350	1,267.11	11,869,049	8,200,000	44.74
China	783,181	0	NA	8,022,455	4,849,000	65.45
Venezuela	1,459,598	274,413	431.90	7,485,819	5,388,000	38.94
Singapore	250,291	110,174	127.18	6,609,347	1,596,000	314.12
India	168,382	898,489	-81.26	6,564,539	1,744,000	276.41
Italy	140,792	1,079,532	-86.96	6,383,367	4,824,000	32.33
Netherlands	631,097	3,585,193	-82.40	5,651,429	2,754,000	105.21
France	165,462	515,219	-67.89	5,341,135	6,865,000	-22.20
Brazil	1,432,795	981,014	46.05	5,333,108	8,836,000	-39.64
Australia	164,421	387,131	-57.53	5,036,315	6,267,000	-19.64
Spain	325,434	157,540	106.57	3,250,502	4,687,000	-30.65
Thailand	1,326,642	218,687	506.64	3,234,442	2,786,000	16.10
Belgium	514,518	124,000	314.93	2,311,735	1,186,000	94.92
Malaysia	16,851	587,679	-97.13	1,340,336	2,417,000	-44.55
Switzerland	205,070	30,979	561.96	1,180,106	1,402,000	-15.83
Austria	12,505	33,355	-62.51	662,010	106,000	524.54
Indonesia	12,000	31,337	-61.71	152,452	385,000	-60.40
USSR	0	0	NA	107,711	52,000	107.14

October 30, 1989
NMTBA - The Association For Manufacturing Technology

1989 IMPORTS

METAL CUTTING

COUNTRY	AUGUST	JULY	PERCENTAGE CHANGE	Y-T-D '89	Y-T-D '88	PERCENTAGE CHANGE
Japan	$ 110,565,209	$ 103,138,127	7.20%	$ 750,489,980	$ 572,345,000	31.13%
W Germany	27,202,273	26,469,459	2.77	181,755,614	162,151,000	12.09
Taiwan	12,972,740	13,378,936	-3.04	83,877,378	84,976,000	-1.29
Switzerland	6,470,079	9,514,029	-31.99	57,170,526	48,770,000	17.22
U.K.	5,536,087	6,431,240	-13.92	48,171,385	53,177,000	-9.41
Italy	7,191,266	6,007,394	19.71	37,699,667	28,870,000	30.58
France	1,305,296	1,283,644	1.69	17,514,821	7,898,000	121.76
Korea	2,200,053	1,696,176	29.71	16,851,690	8,540,000	97.33
Spain	2,504,903	1,157,120	116.48	13,804,071	13,200,000	4.58
Canada	1,302,713	3,237,219	-59.76	13,671,160	11,998,000	13.95
Singapore	1,866,803	1,456,799	28.14	10,367,268	5,278,000	96.42
Sweden	627,047	1,691,894	-62.94	7,687,616	6,766,000	13.62
Belgium	88,535	331,480	-73.29	4,498,308	1,261,000	256.73
Brazil	690,807	283,034	144.07	4,168,824	3,184,000	30.93

METAL FORMING

COUNTRY	AUGUST	JULY	PERCENTAGE CHANGE	Y-T-D '89	Y-T-D '88	PERCENTAGE CHANGE
Japan	$ 33,512,082	$ 23,875,493	40.36%	$ 222,503,150	$ 146,765,000	51.61%
W Germany	5,130,869	8,565,083	-40.10	46,922,059	34,477,000	36.10
Canada	2,535,806	3,150,627	-19.51	34,920,819	28,323,000	23.29
Italy	3,179,603	2,637,098	12.07	17,133,104	24,876,000	-31.13
Belgium	2,438,791	2,550,152	-4.37	15,735,839	10,393,000	51.41
Switzerland	1,101,125	522,209	110.86	10,665,177	14,661,000	-27.25
U.K.	528,598	809,810	-34.73	9,708,639	11,459,000	-15.27
Sweden	145,340	1,453,303	-90.00	5,956,195	8,192,000	-27.29
Taiwan	607,904	380,034	59.96	5,902,348	4,652,000	26.88
Brazil	4,365,164	0	NA	4,508,589	6,389,000	-29.43
Spain	195,319	449,766	-56.57	1,937,267	2,476,000	-21.76
France	181,501	67,402	169.28	1,170,445	3,908,000	-70.05
Singapore	3,210	119,913	-97.32	725,962	1,154,000	-37.09
Korea	0	0	NA	174,508	202,000	-13.61

October 30, 1989
NMTBA - The Association For Manufacturing Technology

U.S. IMPORTS
Metal Cutting Machine Tools - August 89

RELEASED: October 25, 1989

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456301010	Traveling wire electro-discharge machines, NC	506	41741	52	4465
301030	Traveling wire electro-discharge machines, non-NC	192	13399	52	4065
301050	Electro-discharge machines, n.e.c., NC	123	5923	10	857
301070	Electro-discharge machines, n.e.c., non-NC	251	9254	44	1339
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	1559	127724	242	19038
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	144	19159	23	4532
100035	Horiz. mach. ctrs., ATC	524	91667	106	12488
100045	Mach. ctrs., n.e.c.	224	30589	25	4296
200010	Unit construction mach. (single station transfer), NC	19	3356	6	1581
200090	Unit construction mach. (single station transfer), non-NC	15	777	2	227
300010	Multi-station transfer machines, NC	24	18106	5	2391
300090	Multi-station transfer machines, non-NC	94	24248	19	5464
8458110010	Horiz. lathes, multiple spindle, NC	210	32580	36	5203
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	2168	162149	250	17660
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	421	56137	64	8387
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	58	8634	2	1221
190030	Horiz. engine or toolroom lathes, non-NC	2055	19803	354	2981
190050	Automatic bar and/or chucking mach., single spindle, non-NC	308	10319	9	697
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	67	3458	8	116
190090	Horiz. lathes, n.e.c., non-NC	673	9215	57	649
911060	Vertical turret lathes, multiple spindle, NC	20	7399	4	698
911080	Vertical turret lathes, n.e.c., NC	33	4264	7	688
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	2	682	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	53	5029	5	332
991050	Vertical turret lathes, non-NC	40	3042	15	203
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	545	14640	97	2269
8459100000	Way-type unit head machines	8	541	0	0
210080	Other drilling machines, NC	340	28455	52	3523
290040	Drilling machines, multiple spindle, non-NC	77	5462	29	3015
290050	Drilling machines, radial, non-NC	314	1978	61	341
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	183	1423	32	160
290090	Drilling machines, n.e.c., non-NC	404	23126	74	2191
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	5	1896	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	108	10446	16	1270
310070	Boring-milling mach., n.e.c., NC	49	2867	1	146
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	31	1031	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	145	5163	10	308
400040	Boring machines, vertical, NC	15	6228	3	499
400050	Boring machines, vertical, non-NC	38	502	9	144
400070	Boring machines, n.e.c., NC	10	2459	1	161
400080	Boring machines, n.e.c., non-NC	197	10624	35	840
510080	Milling machines, knee type, NC	895	12828	174	1770
590030	Milling machines, knee type, non-NC	2282	22666	336	3077
610080	Milling machines, excl. knee type, n.e.c., NC	312	30375	65	2370
690050	Milling machines, profile, dup., or die sinking, non-NC	53	611	12	55
690070	Milling machines, bed type, non-NC	78	2303	7	290
690090	Milling machines, n.e.c., non-NC	409	11882	47	2793
700020	Threading or tapping machines, n.e.c., NC	202	11105	18	858
700080	Threading or tapping machines, n.e.c., non-NC	201	7950	37	626
8460110080	Flat surface grinding mach., NC	126	10016	9	1448
190010	Flat surface grinding mach., recip.-table type, non-NC	744	8074	95	739
190050	Flat surface grinding mach., n.e.c., non-NC	1175	14393	168	3081
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	380	69643	129	12887
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	272	9601	50	926
290030	Grinding mach., internal cylindrical, non-NC	110	9755	19	2183
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	915	31955	87	5174
310080	Sharpening machines (tool & cutter grinding), NC	188	2252	22	249
390050	Sharpening machines (tool & cutter grinding), non-NC	462	6467	68	683
400060	Honing or lapping machines, NC	31	6200	2	187
400080	Honing or lapping machines, non-NC	111	3913	5	818
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	40	3812	3	999
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	905	24494	172	3915
8461100060	Planing machines, NC	0	0	0	0
100080	Planing machines, non-NC	4	84	2	26
200010	Shaping or slotting machines, NC	29	2192	3	759
200090	Shaping or slotting machines, non-NC	40	1465	4	110
300060	Broaching machines, NC	9	2067	0	0
300080	Broaching machines, non-NC	40	4010	1	60
401050	Gear hobbers	80	13883	14	3474
401070	Gear shapers	10	1301	2	299
401090	Gear cutting machines, n.e.c.	280	948	22	13
405060	Gear grinding or finishing machines	145	14104	19	2166
500050	Sawing or cutting-off machines, NC	94	2391	18	293
500090	Sawing or cutting-off machines, non-NC	1305	17485	218	2566
9000000001	Metal cutting machine tools, n.e.c.	481	11824	45	889
9800000001	Used or rebuilt machine tools	4951	28656	1343	5011
9900000001	Machine tools valued at less than $2,500	428693	63569	70330	10237
	Cutting Total			75363	185557
Please see notes on last page	Y-T-D Cutting Total	458304	1289771		
of the metal forming section.	NC Y-T-D Cutting Total	8965	822536		

U.S. IMPORTS

Metal Cutting Machine Tools - August 89

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	0	0	0	0	0	0	0	0	0	0
301030	0	0	0	0	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	1	57	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	0	0	2	175
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	1	583
300090	0	0	0	0	6	191	0	0	4	2415
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	1	8	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	44	352	1	9	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	22	201	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	1	16	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	13	163	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	2	13	0	0	1	3
290040	0	0	0	0	0	0	0	0	4	16
290050	0	0	1	8	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	2	776	35	1020
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	1	147
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	1	32
400050	0	0	0	0	0	0	0	0	8	119
400070	0	0	0	0	0	0	0	0	0	0
400080	20	84	0	0	3	43	0	0	1	5
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	1	401
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	1	3
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	1	1	3	10	0	0
210080	0	0	0	0	0	0	0	0	1	46
290010	0	0	1	114	13	87	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	13	184	1	2	5	82
310080	0	0	0	0	0	0	1	22	0	0
390050	0	0	0	0	5	16	0	0	7	71
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	0	0	1	60	26	90	41	1100
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	11	48
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	17	180	1	34	64	276
9000000001	0	0	0	0	7	276	12	193	0	0
9800000001	33	2	0	0	26	47	0	0	3	11
9900000001	8	2	0	0	34	35	123	113	3100	639
Month Tot	61	89	69	691	142	1303	171	1305	3292	7191
Y-T-D Tot	144	4498	674	4169	2288	13671	1191	17515	24677	37700
MC YTD Tot	11	383	15	315	15	1845	41	2068	118	11554

Please see notes on last page of the metal forming section.

U.S. IMPORTS

Metal Cutting Machine Tools - August 89

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	49	4143	0	0	0	0	0	0	0	0
301030	29	1928	0	0	0	0	0	0	0	0
301050	10	857	0	0	0	0	0	0	0	0
301070	15	238	0	0	0	0	0	0	0	0
8457100015	166	14412	1	51	21	1060	0	0	0	0
100025	19	4247	0	0	0	0	0	0	0	0
100035	86	9983	0	0	0	0	0	0	0	0
100045	3	2345	0	0	0	0	0	0	0	0
200010	6	1583	0	0	0	0	0	0	0	0
200090	2	227	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	2	570	0	0	0	0	0	0	0	0
8458110010	26	3428	0	0	0	0	0	0	0	0
110030	240	17129	7	429	0	0	0	0	0	0
110050	59	8121	0	0	0	0	0	0	0	0
110090	0	0	1	102	0	0	0	0	0	0
190030	0	0	14	132	41	397	33	198	0	0
190050	3	608	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	8	159	1	28	0	0	0	0	0	0
911060	4	698	0	0	0	0	0	0	0	0
911080	7	688	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	4	315	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	3	379	14	852	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	45	3165	0	0	0	0	0	0	0	0
290040	25	2999	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	3	32	12	48
290070	1	7	0	0	0	0	24	94	0	0
290090	3	54	0	0	0	0	30	128	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	2	931	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	1	146	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	5	99	0	0	0	0	0	0	0	0
400040	2	467	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	1	161	0	0	0	0	0	0	0	0
400080	2	119	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	128	826	0	0
590030	5	1604	0	0	0	0	51	463	1	25
610080	3	841	0	0	2	83	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	5	198	0	0	0	0	0	0	0	0
690090	5	2025	1	6	0	0	6	433	1	82
700020	18	858	0	0	0	0	0	0	0	0
700080	35	619	0	0	0	0	0	0	2	8
8460110080	4	894	0	0	0	0	0	0	0	0
190010	35	322	0	0	31	326	0	0	0	0
190050	19	1721	0	0	0	0	2	184	0	0
210080	95	9374	0	0	0	0	0	0	0	0
290010	1	44	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	24	3319	0	0	0	0	0	0	13	108
310080	0	0	0	0	0	0	0	0	1	42
390050	2	23	0	0	0	0	0	0	0	0
400060	2	187	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
900060	2	218	0	0	0	0	0	0	0	0
900080	15	383	24	147	0	0	0	0	20	54
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	3	759	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	1	172	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	8	2118	0	0	0	0	0	0	0	0
500050	5	133	0	0	0	0	0	0	0	0
500090	23	600	0	0	0	0	0	0	0	0
9000000001	9	38	0	0	0	0	0	0	0	0
9800000001	47	3279	1	70	0	0	0	0	1	3
9900000001	3931	774	395	385	0	0	0	0	145	257
Month Tot	5124	110565	459	2200	95	1867	278	2505	196	627
Y-T-D Tot	40495	750490	4890	16852	542	10367	1502	13804	1961	7688
NC YTD Tot	5816	624254	119	7349	110	5406	442	4419	7	1506

Please see notes on last page of the metal forming section.

U.S. IMPORTS

Metal Cutting Machine Tools - August 89

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456301010	3	322	0	0	0	0	0	0	0	0
301030	22	2123	1	14	0	0	0	0	0	0
301050	0	0	0	0	0	0	0	0	0	0
301070	13	771	10	138	0	0	6	193	0	0
8457100015	0	0	5	565	21	1077	6	1002	21	814
100025	0	0	0	0	2	123	0	0	2	162
100035	0	0	0	0	0	0	20	2505	0	0
100045	5	139	10	613	0	0	2	815	3	210
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	4	1808	0	0
300090	2	324	0	0	0	0	5	1964	0	0
8458110010	0	0	2	110	1	281	7	1384	0	0
110030	0	0	2	93	0	0	0	0	0	0
110050	0	0	3	167	0	0	2	98	0	0
110090	0	0	0	0	0	0	1	1119	0	0
190030	0	0	107	886	71	747	0	0	43	270
190050	0	0	3	27	0	0	1	16	2	46
190070	3	78	5	38	0	0	0	0	0	0
190090	0	0	2	20	23	226	1	16	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	2	139	0	0	0	0	0	0	13	63
995090	2	91	10	27	5	23	2	38	48	696
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	1	3	2	321	1	17
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	32	186	0	0	0	0	13	68
290070	0	0	0	0	0	0	7	59	0	0
290090	1	28	1	19	1	9	1	157	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	13	192
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	3	162	2	47
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	1	25	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	1	31	3	11	5	556
510080	1	237	26	228	17	448	0	0	2	30
590030	0	0	155	952	60	230	4	223	60	381
610080	0	0	22	317	8	99	1	578	28	51
690050	0	0	12	55	0	0	0	0	0	0
690070	0	0	2	92	0	0	0	0	0	0
690090	3	8	0	0	6	131	1	9	23	96
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	3	532	0	0	0	0	2	23	0	0
190010	0	0	29	90	0	0	0	0	0	0
190050	0	0	130	911	1	1	6	185	6	66
210080	1	235	1	58	0	0	31	3174	0	0
290010	3	502	0	0	2	27	30	152	0	0
290030	0	0	0	0	0	0	9	2135	10	48
290050	2	373	12	137	4	23	9	902	4	44
310080	0	0	14	98	3	7	3	80	0	0
390050	8	118	17	80	12	95	17	200	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	1	8	0	0	1	17	3	794	0	0
900060	0	0	0	0	0	0	1	181	0	0
900080	8	211	7	59	17	879	11	901	2	31
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	2	26	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	4	110	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	1	60	0	0
401050	0	0	0	0	0	0	14	3474	0	0
401070	0	0	0	0	0	0	1	67	0	0
401090	0	0	0	0	5	2	17	11	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	2	13	0	0	11	148	0	0
500090	0	0	25	163	3	13	59	1185	26	114
9000000001	2	217	0	0	6	45	1	75	8	44
9800000001	1	7	7	52	75	805	13	568	1136	166
9900000001	22	6	48780	6763	325	195	421	246	13046	821
Month Tot	108	6470	49434	12973	671	5536	746	27202	14517	5033
Y-T-D Tot	1084	57171	282470	83877	5339	48171	7871	181756	83176	42043
MC YTD Tot	150	22126	722	17676	501	21251	622	94165	276	8219

Please see notes on last page of the metal forming section.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
August 89

RELEASED: October 25, 1989

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	2716	28429	54	2148
8462100030	Headers and upsetters, including cold headers	70	7084	6	459
100050	Forging or die stamping machines, and hammers, n.e.c.	1068	56311	88	3702
210080	Bending, folding, straight. or flat. mach., incl presses, NC	784	25952	61	6485
290030	Press brakes, non-NC	268	7070	20	419
290040	Bending rolls, non-NC	61	1613	4	85
290050	Bending, folding, straight., or flat., n.e.c., non-NC	748	31442	68	1881
310080	Shearing machines, NC	33	3996	3	356
390050	Shearing machines, non-NC	500	10260	45	1107
410080	Punching or notching mach., incl. comb. punch & shear, NC	272	28020	23	3121
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	428	9990	35	867
910060	Hydraulic presses, NC	26	2585	1	185
910090	Hydraulic presses, non-NC	306	19010	64	1270
990030	Presses, n.e.c., NC	38	4766	5	36
990040	Presses, mechanical, non-NC	66	23337	0	0
990060	Presses, n.e.c., non-NC	825	66973	78	22136
8463100080	Draw benches for bars, tubes, profiles, wire or the like	35	4938	4	235
200080	Thread rolling machines	38	2337	9	942
300080	Machines for working wire	446	20265	113	5006
900080	Metal forming machine tools, n.e.c.	549	20261	58	2561
9[illegible]3000002	Used or rebuilt machine tools	574	10433	74	1103
9900000002	Machine tools valued at less than $2,500	15925	4895	2285	616
	Forming Total			3098	54719
	Y-T-D Forming Total	25776	389966		
	NC Y-T-D Forming Total	1153	65319		
	Cutting and Forming Totals:				
	Monthly Total			78461	240276
	Y-T-D Total	484080	1679738		
	NC Y-T-D Total	10118	887855		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	419372	0	41602
2710003[illegible]70	Quenching or cutting oils	0	60	0	16
8428900010	Industrial robots for lifting, handling, loading or unload	1429	31429	173	3280
8456101010	Laser, light or photon beam for working metal, NC	59	8794	12	1913
101020	Laser, light or photon beam for working metal, non-NC	30	2567	6	697
105000	Laser, light or photon beam for other materials	1133	3367	8	23
201010	Ultrasonic processes for working metal, NC	6	952	1	305
201050	Ultrasonic processes for working metal, non-NC	11	25	0	0
205000	Ultrasonic processes for working other materials	133	447	3	5
8477106010	Injection molding mach., for rubber or oth. thermosetting	692	65944	109	8832
106050	Injection molding mach., for thermoplastics	1824	189420	261	28661
200010	Extruders for rubber or other thermosetting materials	147	16710	28	1155
200050	Extruders for processing thermoplastics	493	29543	61	2928
300000	Blow molding machines	209	33003	18	6047
400000	Vacuum-molding and other thermoforming machines	184	14080	7	62
8479899040	Industrial robots, n.e.c.	12640	95353	297	6510
900040	Industrial robot parts	0	23712	0	8022
8537100030	Numerical controls for controlling machine tools	7537	34376	597	2617
9024100000	Machines and appliances for testing metals	0	9504	0	641
9031100000	Machines for balancing mechanical parts	0	5955	0	1581
300000	Profile projectors	0	3493	0	350
9032810020	Industrial process control instr., hydraulic	131000	1871	26780	323
810060	Industrial process control instr., pneumatic	82998	2088	7126	486

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
August 89

Metal Forming

	Belgium		Brazil		Canada		France		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	2	17	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	1	1	2	4	6	30	1	10	2	34
210080	0	0	0	0	0	0	1	12	0	0
290030	0	0	0	0	13	293	0	0	0	0
290040	0	0	0	0	0	0	0	0	2	53
290050	0	0	0	0	21	383	1	9	10	129
310080	0	0	0	0	0	0	0	0	0	0
390050	9	141	0	0	7	380	0	0	6	49
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	0	0	3	143	0	0	0	0
910060	0	0	0	0	0	0	0	0	0	0
910090	3	1	0	0	3	11	1	117	1	29
990030	0	0	0	0	1	7	0	0	1	17
990040	0	0	0	0	0	0	0	0	0	0
990060	2	1220	14	4243	29	692	0	0	7	53
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	16	698	0	0	4	56	0	0	9	1560
900080	0	0	6	16	3	378	4	34	9	1129
9800000002	11	377	0	0	7	138	0	0	3	73
9900000002	0	0	216	103	5	7	0	0	44	52
Month Tot	42	2439	238	4365	104	2536	8	182	94	3180
Y-T-D Tot	424	15736	249	4509	3590	34921	98	1170	852	17133
NC YTD Tot	37	1380	0	0	14	774	9	231	11	921
C&F Month	103	2527	307	5056	246	3839	179	1487	3386	10371
C&F Y-T-D	568	20234	923	8677	5878	48592	1289	18685	25529	54833
C&F NC YTD	48	1763	15	315	29	2618	50	2300	129	12476

Other Manufacturing Technology

1000000000	0	531	0	28	0	5467	0	592	0	1782
2710003070	0	0	0	0	0	8	0	0	0	0
8428900010	0	0	0	0	21	301	0	0	0	0
8456101010	0	0	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	1	7	0	0	0	0
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477106010	1	22	0	0	8	927	3	290	11	746
106050	0	0	0	0	31	3400	0	0	21	877
200010	0	0	0	0	0	0	2	257	5	151
200050	0	0	0	0	7	444	0	0	0	0
300000	0	0	0	0	4	91	1	8	1	494
400000	0	0	0	0	0	0	0	0	0	0
8479899040	0	0	0	0	1	12	1	67	3	121
908040	0	0	0	0	0	10	0	46	0	127
8537100030	0	0	0	0	2	1	0	0	1	99
9024100000	0	0	0	0	0	5	0	0	0	12
9031100000	0	0	0	0	0	11	0	9	0	88
300000	0	0	0	0	0	0	0	0	0	6
9032810020	0	0	0	0	1	4	0	0	0	0
810060	0	0	0	0	1	4	0	0	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
August 89

Metal Forming

	Japan		Korea		Singapore		Spain		Sweden	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	48	1886	0	0	0	0	0	0	0	0
8462100030	4	420	0	0	0	0	0	0	0	0
100050	43	3477	0	0	2	3	0	0	0	0
210080	52	5716	0	0	0	0	0	0	0	0
290030	2	71	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	1	10
290050	16	1249	0	0	0	0	0	0	2	20
310080	2	302	0	0	0	0	0	0	0	0
390050	9	422	0	0	0	0	0	0	0	0
410080	9	1421	0	0	0	0	0	0	0	0
490050	5	70	0	0	0	0	10	78	2	23
910060	0	0	0	0	0	0	0	0	0	0
910090	21	403	0	0	0	0	0	0	1	1
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	17	14836	0	0	0	0	0	0	1	78
8463100080	0	0	0	0	0	0	0	0	0	0
200080	2	684	0	0	0	0	1	31	0	0
300080	60	2157	0	0	0	0	0	0	0	0
900080	17	244	0	0	0	0	1	26	0	0
9800000002	12	44	0	0	0	0	2	45	0	0
9900000002	72	110	0	0	0	0	30	16	7	14
Month Tot	391	33512	0	0	2	3	44	195	14	145
Y-T-D Tot	3736	222503	60	175	53	726	473	1937	236	5956
NC YTD Tot	752	38742	0	0	0	0	1	50	6	492
C&F Month	5515	144077	459	2200	97	1870	322	2700	210	772
C&F Y-T-D	44231	972993	4950	17026	595	11093	1975	15741	2197	13644
C&F NC YTD	6568	662996	119	7349	110	5406	443	4469	13	1998

Other Manufacturing Technology

1000000000	0	12415	0	100	0	760	0	393	0	446
2710003070	0	0	0	0	0	0	0	0	0	0
8428900010	67	2181	0	0	0	0	0	0	3	186
8456101010	8	1325	0	0	0	0	0	0	0	0
101020	0	0	0	0	0	0	0	0	0	0
105000	0	0	0	0	0	0	0	0	0	0
201010	1	305	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	3	5	0	0	0	0	0	0	0	0
8477106010	53	4142	1	53	0	0	0	0	0	0
106050	101	16711	4	192	0	0	3	12	0	0
200010	5	413	0	0	0	0	0	0	0	0
200050	6	251	1	45	0	0	0	0	0	0
300000	5	2162	0	0	0	0	0	0	0	0
400000	5	41	0	0	0	0	0	0	0	0
8479899040	244	5171	0	0	0	0	0	0	6	162
908040	0	519	0	4	0	3	0	0	0	78
8537100030	587	2478	0	0	0	0	0	0	0	0
9024100000	0	210	0	0	0	0	0	0	0	25
9031100000	0	1427	0	0	0	0	0	0	0	0
300000	0	107	0	0	0	0	0	0	0	0
9032810020	0	0	5500	30	0	0	0	0	0	0
810060	20	181	2500	8	0	0	0	0	611	148

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
August 89

Metal Forming

	Switzerland		Taiwan		U.K.		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	2	116	2	129
8462100030	0	0	2	39	0	0	0	0	0	0
100050	0	0	2	3	2	12	3	21	24	106
210080	2	154	0	0	0	0	3	502	3	101
290030	0	0	0	0	0	0	0	0	5	55
290040	0	0	1	22	0	0	0	0	0	0
290050	1	4	7	22	0	0	2	26	8	40
310080	0	0	0	0	0	0	0	0	1	55
390050	0	0	0	0	2	11	11	91	1	14
410080	1	242	0	0	1	180	12	1278	0	0
490050	0	0	8	256	1	14	2	263	4	20
910060	0	0	0	0	0	0	1	185	0	0
910090	2	16	8	60	0	0	3	570	21	61
990030	0	0	0	0	0	0	3	13	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	2	26	1	10	5	977	0	0
8463100080	0	0	0	0	0	0	4	235	0	0
200080	0	0	4	37	0	0	2	190	0	0
300080	15	83	0	0	2	30	5	416	2	6
900080	2	584	5	20	4	17	7	114	0	0
9800000002	0	0	0	0	23	232	15	124	1	69
9900000002	42	18	329	123	19	22	27	11	1494	140
Month Tot	65	1101	368	608	55	529	107	5131	1566	794
Y-T-D Tot	1327	10665	6651	5902	644	9709	1203	46922	6180	12002
NC YTD Tot	26	3009	23	565	6	471	198	14343	70	4341
C&F Month	173	7571	49802	13581	726	6065	853	32333	16083	5827
C&F Y-T-D	2411	67836	289121	89780	5983	57880	9074	228678	89356	54045
C&F NC YTD	176	25135	745	18241	507	21722	820	108508	346	12560

Other Manufacturing Technology

1000000000	0	1704	0	2444	0	2369	0	8641	0	3930
2710003070	0	0	0	0	0	0	0	8	0	0
8428900010	0	0	0	0	2	158	73	288	7	167
8456101010	3	512	0	0	0	0	0	0	1	77
101020	0	0	0	0	3	182	3	515	0	0
105000	0	0	0	0	0	0	1	13	6	4
201010	0	0	0	0	0	0	0	0	0	0
201050	0	0	0	0	0	0	0	0	0	0
205000	0	0	0	0	0	0	0	0	0	0
8477106010	3	77	6	346	0	0	18	1997	5	232
106050	5	902	10	386	1	15	56	4195	29	1972
200010	5	89	2	66	7	51	2	127	0	0
200050	0	0	1	43	13	969	28	1016	5	161
300000	0	0	0	0	0	0	6	3092	1	200
400000	0	0	0	0	2	20	0	0	0	0
8479899040	0	0	0	0	5	71	13	779	24	127
908040	0	66	0	5	0	162	0	678	0	1324
8537100030	1	9	0	0	5	26	1	4	0	0
9024100000	0	143	0	5	0	71	0	49	0	121
9031100000	0	0	0	12	0	0	0	18	0	15
300000	0	0	0	0	0	235	0	2	0	0
9032810020	895	23	0	0	1551	8	105	139	18728	120
810060	0	0	3900	35	0	0	47	94	47	14

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466945000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
August 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Austria	435	839	3	3	438	842
Bulgaria	0	0	0	0	0	0
Czechoslovakia	6	76	0	0	6	76
Denmark	14	84	3	11	17	95
East Germany	6	183	0	0	6	183
Finland	0	0	9	42	9	42
Hungary	0	0	0	0	0	0
Ireland	200	54	0	0	200	54
Luxembourg	0	0	0	0	0	0
Netherlands	70	498	8	64	78	562
Norway	1	17	0	0	1	17
Poland	49	476	0	0	49	476
Portugal	0	0	9	112	9	112
Romania	0	0	0	0	0	0
USSR	0	0	0	0	0	0
Yugoslavia	23	83	1	47	24	130
Oth Europe	0	0	20	39	20	39
TOTAL	6327	53236	482	13219	6809	66454
NORTH AND CENTRAL AMERICA						
Barbados	0	0	0	0	0	0
Dominican Rep	0	0	0	0	0	0
Mexico	226	49	67	112	293	161
Oth N & C Am.	0	0	0	0	0	0
TOTAL	368	1352	171	2648	539	4000
SOUTH AMERICA						
Argentina	0	0	0	0	0	0
Chile	0	0	0	0	0	0
Colombia	0	0	0	0	0	0
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Venezuela	0	0	0	0	0	0
Oth South Am.	0	0	0	0	0	0
TOTAL	69	691	238	4365	307	5056
OCEANIA						
Australia	0	0	0	0	0	0
New Zealand	0	0	3	60	3	60
Oth Oceania	0	0	0	0	0	0
TOTAL	0	0	3	60	3	60

U.S. IMPORTS
Metal Cutting and Metal Forming Machine Tool Totals
August 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
China	13423	1338	1428	33	14851	1372
Hong Kong	20	116	1	69	21	185
India	24	193	0	0	24	193
Indonesia	0	0	0	0	0	0
Iran	0	0	0	0	0	0
Iraq	0	0	0	0	0	0
Israel	19	1022	12	145	31	1167
Malaysia	0	0	2	58	2	58
Pakistan	0	0	0	0	0	0
Philippines	1	4	0	0	1	4
Thailand	0	0	0	0	0	0
Oth Asia	0	0	0	0	0	0
TOTAL	68599	130278	2204	34428	70803	164706
AFRICA						
Ghana	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Niger	0	0	0	0	0	0
South Africa	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Oth Africa	0	0	0	0	0	0
TOTAL	0	0	0	0	0	0

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.

U.S. EXPORTS
Metal Cutting Machine Tools - August 89

RELEASED: October 25, 1989

		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8456300000	Electro-discharge machines	315	3289	3	215
8457100015	Vert. mach. ctrs., ATC, Y-axis travel not over 660mm(26")	17	2689	2	283
100025	Vert. mach. ctrs., ATC, Y-axis travel over 660mm(26")	4	867	0	0
100035	Horiz. mach. ctrs., ATC	37	13173	3	1283
100045	Mach. ctrs., n.e.c.	126	10085	29	2125
200010	Unit construction mach. (single station transfer), NC	3	2683	0	0
200090	Unit construction mach. (single station transfer), non-NC	4	974	1	90
300010	Multi-station transfer machines, NC	4	4934	3	4767
300090	Multi-station transfer machines, non-NC	13	2913	0	0
8458110010	Horiz. lathes, multiple spindle, NC	3	534	0	0
110030	Horiz. lathes, power rating under 18.65 kW (25 HP), NC	117	9481	11	809
110050	Horiz. lathes, power rating 18.65-37.3 kW (25-50 HP), NC	27	4581	1	206
110090	Horiz. lathes, power rating over 37.3 kW (50 HP), NC	4	385	0	0
190030	Horiz. engine or toolroom lathes, non-NC	71	1725	11	360
190050	Automatic bar and/or chucking mach., single spindle, non-NC	16	59	0	0
190070	Automatic bar and/or chucking mach., mult. spindle, non-NC	31	2433	4	185
190090	Horiz. lathes, n.e.c., non-NC	160	2177	17	259
911060	Vertical turret lathes, multiple spindle, NC	0	0	0	0
911080	Vertical turret lathes, n.e.c., NC	5	863	1	241
915050	Vertical lathes, excl. VTL's, mult. spindle, NC	1	273	0	0
915070	Vertical lathes, excl. VTL's, n.e.c., NC	9	898	2	127
991050	Vertical turret lathes, non-NC	20	650	2	53
995090	Vertical lathes, n.e.c., excl. VTL's, non-NC	52	2843	5	254
8459100000	Way-type unit head machines	13	2814	2	169
210080	Other drilling machines, NC	68	5147	14	1074
290040	Drilling machines, multiple spindle, non-NC	18	1039	1	88
290050	Drilling machines, radial, non-NC	21	764	2	92
290070	Drilling, upright, ex. sensitive, turret & deep hole, non-NC	25	930	4	199
290090	Drilling machines, n.e.c., non-NC	83	3481	21	122
310010	Boring-milling mach., horiz. spind., table, excl. planer, NC	5	1799	0	0
310040	Boring-milling mach., horiz. spindle, n.e.c., NC	1	366	0	0
310070	Boring-milling mach., n.e.c., NC	28	2160	10	409
390040	Boring-milling mach., horiz. spindle, n.e.c., non-NC	1	30	0	0
390050	Boring-milling mach., excl. horiz. spindle, n.e.c., non-NC	100	2012	1	10
400040	Boring machines, vertical, NC	2	1182	0	0
400050	Boring machines, vertical, non-NC	27	967	9	645
400070	Boring machines, n.e.c., NC	1	1350	0	0
400080	Boring machines, n.e.c., non-NC	39	2419	6	307
510080	Milling machines, knee type, NC	22	1466	2	157
590030	Milling machines, knee type, non-NC	35	1779	5	142
610080	Milling machines, excl. knee type, n.e.c., NC	39	4853	2	201
690050	Milling machines, profile, dup., or die sinking, non-NC	21	1095	1	103
690070	Milling machines, bed type, non-NC	50	6633	8	490
690090	Milling machines, n.e.c., non-NC	249	5565	21	409
700020	Threading or tapping machines, n.e.c., NC	18	479	11	304
700080	Threading or tapping machines, n.e.c., non-NC	187	5497	17	665
8460110080	Flat surface grinding mach., NC	107	7742	17	1019
190010	Flat surface grinding mach., recip.-table type, non-NC	58	859	4	58
190050	Flat surface grinding mach., n.e.c., non-NC	85	7964	9	2737
210080	Grinding mach., of an accuracy at least 0.01mm, n.e.c., NC	256	20403	67	4280
290010	Grinding mach., external cylindrical, (incl. univ.), non-NC	31	3322	0	0
290030	Grinding mach., internal cylindrical, non-NC	40	3534	1	47
290050	Grinding mach., of accuracy at least 0.01mm, n.e.c., non-NC	364	16979	27	837
310080	Sharpening machines (tool & cutter grinding), NC	28	1208	4	440
390050	Sharpening machines (tool & cutter grinding), non-NC	769	7374	126	1381
400060	Honing or lapping machines, NC	2	58	0	0
400080	Honing or lapping machines, non-NC	509	6414	55	647
900060	Grinding, honing, polishing, & lapping mach., n.e.c., NC	27	2695	0	0
900080	Grinding, honing, polishing, & lapping mach., n.e.c., non-NC	358	9254	39	1184
8461100060	Planing machines, NC	6	3712	0	0
100080	Planing machines, non-NC	115	3919	15	197
200010	Shaping or slotting machines, NC	0	0	0	0
200090	Shaping or slotting machines, non-NC	37	1106	3	284
300060	Broaching machines, NC	1	248	0	0
300080	Broaching machines, non-NC	42	2012	20	647
401050	Gear hobbers	31	4657	2	401
401070	Gear shapers	57	4194	6	179
401090	Gear cutting machines, n.e.c.	52	10634	5	1944
405060	Gear grinding or finishing machines	44	5993	5	900
500050	Sawing or cutting-off machines, NC	25	1252	0	0
500090	Sawing or cutting-off machines, non-NC	671	8829	77	760
9000000001	Metal cutting machine tools, n.e.c.	177	9117	32	1809
9800000001	Used or rebuilt machine tools	4479	35762	607	4962
9900000001	Machine tools valued at less than $2,500	26343	10014	4437	857
	Cutting Total			5790	42412
	Y-T-D Cutting Total	36806	311590		
	NC Y-T-D Cutting Total*	1032	111959		

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - August 89

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	2	175
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	0	0	0	0	1	105	2	204	1	80
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	1	92
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	2	35
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	3	12
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	1	102	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	1	120
290040	0	0	0	0	0	0	0	0	1	88
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	17	52
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	1	50
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	1	12
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	6	307
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	1	20	1	16
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	1	103	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	8	490
690090	0	0	0	0	0	0	0	0	7	195
700020	0	0	0	0	0	0	0	0	1	43
700080	0	0	0	0	0	0	0	0	2	6
8460110080	0	0	0	0	0	0	0	0	1	24
190010	0	0	0	0	0	0	0	0	1	7
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	8	390	3	101
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	11	122
310080	0	0	0	0	0	0	0	0	0	0
390050	1	580	0	0	0	0	5	13	9	65
400060	0	0	0	0	0	0	0	0	0	0
400080	4	28	0	0	0	0	0	0	4	37
900060	0	0	0	0	0	0	0	0	0	0
900080	1	3	0	0	0	0	0	0	5	39
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	3	44
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	19	521
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	3	819
500050	0	0	0	0	0	0	0	0	0	0
500090	1	9	0	0	0	0	1	26	10	121
9000000001	0	0	0	0	0	0	0	0	3	104
9800000001	19	56	0	0	6	353	5	35	44	495
9900000001	0	0	8	5	1	2	0	0	3455	212
Month Tot	27	777	9	108	8	460	22	687	3626	4485
Y-T-D Tot	652	7425	50	983	165	5226	282	6641	16926	39199
NC YTD Tot*	10	987	4	380	30	3341	40	2842	142	11764

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - August 89

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	1	752	0	0	0	0	0	0	0	0
100045	0	0	0	0	0	0	1	560	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	4	371	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	2	200	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	1	12	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	1	55	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	2	535	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	2	132
700020	0	0	0	0	0	0	0	0	0	0
700080	2	410	0	0	1	217	0	0	0	0
8460110080	1	31	0	0	0	0	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	2	428	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	67	436
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	12	131	0	0	0	0	7	89
900060	0	0	0	0	0	0	0	0	0	0
900080	0	0	10	153	0	0	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	1	125
401050	1	361	0	0	0	0	0	0	0	0
401070	0	0	0	0	5	150	0	0	0	0
401090	0	0	0	0	2	702	0	0	2	1127
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	0	0	8	50	2	33
9000000001	0	0	0	0	0	0	0	0	0	0
9800000001	9	209	1	2	0	0	0	0	4	14
9900000001	0	0	0	0	0	0	0	0	13	8
Month Tot	20	2926	29	724	8	1069	9	610	98	1964
Y-T-D Tot	458	18805	603	9521	179	8026	97	3774	393	10054
NC YTD Tot*	83	11356	47	6608	4	1339	5	1646	7	1146

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - August 89

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	1	40	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	1	81	0	0	0	0	0	0
100045	0	0	0	0	0	0	3	139	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	1	90	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	1	20	0	0	0	0	1	3	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	4	185	0	0	0	0	0	0
190090	2	64	0	0	0	0	7	115	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	1	241	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	2	53	0	0
995090	0	0	0	0	0	0	4	242	0	0
8459100000	0	0	0	0	0	0	2	169	0	0
210080	0	0	2	116	0	0	2	88	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	1	9	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	3	15	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	9	359	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	6	98	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	1	126	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	11	75	0	0
700020	0	0	0	0	0	0	0	0	0	0
700080	0	0	7	19	0	0	2	5	0	0
8460110080	0	0	0	0	0	0	5	303	0	0
190010	0	0	0	0	0	0	2	13	0	0
190050	0	0	0	0	0	0	0	0	0	0
210080	10	694	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	14	287	0	0
310080	1	45	0	0	0	0	0	0	0	0
390050	9	62	5	27	0	0	13	95	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	1	12	1	14	0	0	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	5	216	2	392	0	0	6	60	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	2	47	0	0	0	0	9	82	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	2	274	0	0	0	0	1	10	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	1	29	0	0	0	0	0	0
401090	0	0	0	0	1	115	0	0	0	0
405060	0	0	2	81	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	13	66	9	119	0	0	6	59	5	25
9000000001	10	530	1	503	0	0	13	500	0	0
9800000001	66	516	9	125	8	66	353	1608	2	10
9900000001	93	38	23	28	0	0	200	145	10	16
Month Tot	218	2713	68	1956	10	195	674	4648	17	51
Y-T-D Tot	2319	21116	1316	27979	69	724	4787	43388	390	3426
NC YTD Tot*	85	6084	58	9281	2	69	120	9565	19	1900

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - August 89

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	0	0	0	0	0	0	0	0	0	0
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	0	0	0	0
100045	2	116	0	0	0	0	4	309	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	0	0	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	0	0	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	0	0	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	0	0	0	0	0	0	0	0	0	0
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	0	0	0	0	0	0	1	22	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	0	0
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
290070	0	0	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	0	0	0	0	0	0	0	0	0	0
590030	0	0	0	0	0	0	0	0	0	0
610080	0	0	0	0	0	0	0	0	0	0
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	0	0
700020	2	55	0	0	0	0	0	0	0	0
700080	0	0	0	0	0	0	0	0	0	0
8460110080	0	0	0	0	1	49	0	0	0	0
190010	0	0	0	0	0	0	0	0	0	0
190050	1	73	0	0	0	0	0	0	1	166
210080	0	0	0	0	0	0	0	0	0	0
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	0	0	1	45
390050	0	0	0	0	7	44	0	0	0	0
400060	0	0	0	0	0	0	0	0	0	0
400080	2	18	1	18	0	0	3	13	0	0
900060	0	0	0	0	0	0	0	0	0	0
900080	1	23	0	0	0	0	0	0	0	0
8461100060	0	0	0	0	0	0	0	0	0	0
100080	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	0	0
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	0	0	0	0	0	0	2	14	0	0
9000000001	0	0	0	0	0	0	0	0	1	115
9800000001	2	333	4	5	11	27	0	0	0	0
9900000001	10	6	0	0	20	13	12	10	0	0
Month Tot	20	624	5	23	39	134	22	367	3	326
Y-T-D Tot	626	5908	218	2773	228	2754	523	5650	84	1876
NC YTD Tot*	29	2144	1	677	15	1592	15	1225	18	655

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Cutting Machine Tools - August 89

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8456300000	0	0	0	0	0	0	0	0	0	0
8457100015	1	115	0	0	0	0	0	0	1	168
100025	0	0	0	0	0	0	0	0	0	0
100035	0	0	0	0	0	0	1	450	0	0
100045	7	141	0	0	0	0	3	204	5	267
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300010	3	4767	0	0	0	0	0	0	0	0
300090	0	0	0	0	0	0	0	0	0	0
8458110010	0	0	0	0	0	0	0	0	0	0
110030	6	346	0	0	0	0	0	0	0	0
110050	0	0	0	0	0	0	1	206	0	0
110090	0	0	0	0	0	0	0	0	0	0
190030	3	83	0	0	0	0	0	0	2	18
190050	0	0	0	0	0	0	0	0	0	0
190070	0	0	0	0	0	0	0	0	0	0
190090	4	45	0	0	0	0	0	0	0	0
911060	0	0	0	0	0	0	0	0	0	0
911080	0	0	0	0	0	0	0	0	0	0
915050	0	0	0	0	0	0	0	0	0	0
915070	0	0	0	0	0	0	0	0	1	25
991050	0	0	0	0	0	0	0	0	0	0
995090	0	0	0	0	0	0	0	0	0	0
8459100000	0	0	0	0	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	3	750
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	0	0	1	83
290070	4	199	0	0	0	0	0	0	0	0
290090	0	0	0	0	0	0	0	0	0	0
310010	0	0	0	0	0	0	0	0	0	0
310040	0	0	0	0	0	0	0	0	0	0
310070	0	0	0	0	0	0	0	0	0	0
390040	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	1	10	0	0	0	0
400040	0	0	0	0	0	0	0	0	0	0
400050	0	0	0	0	0	0	0	0	0	0
400070	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	0	0	0	0
510080	1	124	0	0	0	0	0	0	1	33
590030	1	36	0	0	0	0	0	0	2	70
610080	0	0	0	0	0	0	0	0	1	76
690050	0	0	0	0	0	0	0	0	0	0
690070	0	0	0	0	0	0	0	0	0	0
690090	0	0	0	0	0	0	0	0	1	7
700020	0	0	0	0	0	0	8	206	0	0
700080	0	0	0	0	0	0	0	0	3	9
8460110080	5	173	0	0	0	0	0	0	4	439
190010	0	0	0	0	0	0	0	0	1	38
190050	0	0	0	0	0	0	6	2159	1	339
210080	15	961	14	491	0	0	16	1512	1	131
290010	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	1	47	0	0
290050	0	0	0	0	0	0	0	0	0	0
310080	0	0	0	0	0	0	2	350	0	0
390050	0	0	0	0	0	0	8	46	2	15
400060	0	0	0	0	0	0	0	0	0	0
400080	0	0	0	0	0	0	19	283	1	6
900060	0	0	0	0	0	0	0	0	0	0
900080	2	119	0	0	1	5	3	156	3	19
8461100060	0	0	0	0	0	0	0	0	0	0
100080	1	24	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200090	0	0	0	0	0	0	0	0	0	0
300060	0	0	0	0	0	0	0	0	0	0
300080	0	0	0	0	0	0	0	0	0	0
401050	0	0	0	0	0	0	0	0	1	40
401070	0	0	0	0	0	0	0	0	0	0
401090	0	0	0	0	0	0	0	0	0	0
405060	0	0	0	0	0	0	0	0	0	0
500050	0	0	0	0	0	0	0	0	0	0
500090	10	70	0	0	0	0	3	32	7	137
9000000001	1	3	0	0	0	0	0	0	3	55
9800000001	13	397	0	0	10	86	2	12	39	611
9900000001	288	120	0	0	0	0	43	35	261	218
Month Tot	365	7724	14	491	12	100	116	5697	351	3553
Y-T-D Tot	1923	34929	20	1220	246	4675	1253	21699	2999	23818
NC YTD Tot*	134	20937	14	491	5	283	59	8515	86	7132

Please see notes on last page of the metal forming section.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
August 89

RELEASED: October 25, 1989

Metal Forming Machine Tools		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
8454300010	Die casting machines	393	6543	33	366
8462100030	Headers and upsetters, including cold headers	51	11401	4	1289
100050	Forging or die stamping machines, and hammers, n.e.c.	443	14445	73	1683
210080	Bending, folding, straight. or flat. mach., incl presses, NC	241	15953	15	1285
290030	Press brakes, non-NC	27	1196	1	50
290040	Bending rolls, non-NC	45	1382	0	0
290050	Bending, folding, straight., or flat., n.e.c., non-NC	403	15037	64	2837
310080	Shearing machines, NC	39	3142	3	148
390050	Shearing machines, non-NC	121	2751	25	386
410080	Punching or notching mach., incl. comb. punch & shear, NC	105	17585	18	3633
490050	Punching or notching mach., incl. comb. punch & sh., non-NC	557	17200	72	2224
910060	Hydraulic presses, NC	65	3529	11	681
910090	Hydraulic presses, non-NC	369	16311	30	1181
990030	Presses, n.e.c., NC	36	4333	4	225
990040	Presses, mechanical, non-NC	128	5752	23	652
990060	Presses, n.e.c., non-NC	415	23809	50	3678
8463100080	Draw benches for bars, tubes, profiles, wire or the like	211	4561	3	48
200080	Thread rolling machines	29	2510	0	0
300080	Machines for working wire	694	23464	80	2385
900080	Metal forming machine tools, n.e.c.	1645	76509	161	10990
9800000002	Used or rebuilt machine tools	2540	51908	193	4716
9900000002	Machine tools valued at less than $2,500	4319	3221	622	419
	Forming Total			1485	40880
	Y-T-D Forming Total	12876	322542		
	NC Y-T-D Forming Total	486	44543		
	Cutting and Forming Totals:				
	Monthly Total			7275	83292
	Y-T-D Total	49682	634132		
	NC Y-T-D Total*	1518	156501		

Other Manufacturing Technology		TOTAL YTD		TOTAL MO.	
		UNITS	$000	UNITS	$000
1000000000	Machine tool parts and accessories	0	477556	0	72552
2710003070	Quenching or cutting oils	0	7569	0	769
8428900010	Industrial robots for lifting, handling, loading or unload	685	10106	74	1090
8456100000	Laser, light or photon beam for working any material	1973	30710	56	5872
200000	Ultrasonic process for working any material	78	469	1	26
8477106010	Injection molding mach., for rubber or oth. thermosetting	148	13306	12	805
106050	Injection molding mach., for thermoplastics	296	34218	33	2435
200010	Extruders for rubber or other thermosetting materials	172	7931	14	1890
200050	Extruders for processing thermoplastics	683	27717	67	3874
300000	Blow molding machines	284	21844	39	822
400000	Vacuum-molding and other thermoforming machines	1053	11602	84	1219
8479899040	Industrial robots, n.e.c.	1697	23051	163	3633
900040	Industrial robot parts	0	9344	0	1496
8537100030	Numerical controls for controlling machine tools	8269	28436	218	3109
9024100000	Machines and appliances for testing metals	0	51350	0	5069
9031100000	Machines for balancing mechanical parts	0	15895	0	1655
300000	Profile projectors	0	5818	0	1122
9032810040	Industrial process control instr., hydraulic or pneumatic	407786	28766	57593	4955

Note: Product code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "NC Y-T-D Total" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.
n.e.c. - Not elsewhere classified.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
August 89

Metal Forming

	Australia		Austria		Belgium		Brazil		Canada	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	3	28	0	0	0	0	0	0	19	190
8462100030	0	0	0	0	0	0	1	200	0	0
100050	1	12	0	0	1	27	0	0	6	116
210080	0	0	0	0	0	0	0	0	1	49
290030	0	0	0	0	0	0	0	0	1	50
290040	0	0	0	0	0	0	0	0	0	0
290050	3	68	0	0	0	0	0	0	9	147
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	11	185
410080	0	0	0	0	0	0	0	0	7	1170
490050	0	0	0	0	0	0	0	0	7	72
910060	3	49	0	0	0	0	0	0	0	0
910090	0	0	0	0	3	487	0	0	4	88
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	7	166	0	0
990060	0	0	0	0	0	0	1	163	2	60
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	1	6	1	13	0	0	0	0	4	56
900080	0	0	0	0	0	0	5	904	2	15
9800000002	0	0	0	0	0	0	0	0	24	259
9900000002	0	0	0	0	0	0	0	0	191	129
Month Tot	11	164	1	13	4	515	14	1433	288	2588
Y-T-D Tot	360	5036	106	662	96	2312	96	5333	2028	28597
NC YTD Tot	21	1027	0	0	0	0	9	687	93	9543
C&F Month	38	942	10	121	12	975	36	2120	3914	7073
C&F Y-T-D	1012	12461	156	1645	261	7538	378	11974	18954	67796
C&F NC YTD*	31	2014	4	380	30	3341	49	3529	235	21307

Other Manufacturing Technology

1000000000	0	1398	0	334	0	546	0	712	0	8189
2710003070	0	49	0	0	0	0	0	8	0	150
8428900010	0	0	0	0	0	0	0	0	24	214
8456100000	0	0	1	29	3	43	0	0	6	287
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	1	146
106050	0	0	0	0	2	97	0	0	13	967
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	0	0	2	43	0	0	5	138
300000	0	0	0	0	0	0	1	14	1	23
400000	0	0	0	0	0	0	0	0	20	386
8479899040	0	0	0	0	0	0	0	0	20	277
900040	0	2	0	0	0	10	0	0	0	38
8537100030	4	43	1	8	0	0	0	0	8	85
9024100000	0	124	0	0	0	168	0	46	0	905
9031100000	0	0	0	0	0	0	0	0	0	154
300000	0	0	0	0	0	0	0	0	0	122
9032810040	1869	210	247	21	217	11	1430	72	3099	299

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
August 89

Metal Forming

	China		France		India		Indonesia		Italy	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	0	0	4	88	0	0	0	0
210080	0	0	0	0	0	0	0	0	1	29
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	1	55	1	5	0	0	0	0	1	14
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	0	0	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	0	0	1	53	2	70	0	0	0	0
910060	3	85	0	0	0	0	0	0	0	0
910090	0	0	2	19	0	0	0	0	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	22	643	2	85	2	11	0	0	2	76
900080	0	0	1	4	0	0	0	0	1	19
9800000002	0	0	0	0	0	0	0	0	0	0
9900000002	0	0	0	0	0	0	14	12	4	4
Month Tot	26	783	7	165	8	168	14	12	9	141
Y-T-D Tot	233	8022	320	5341	87	6565	25	152	166	6383
NC YTD Tot	21	522	4	392	4	1067	1	15	4	2278
C&F Month	46	3709	36	889	16	1237	23	622	107	2105
C&F Y-T-D	691	26827	923	14862	266	14591	122	3927	559	16437
C&F NC YTD*	104	11877	51	7000	8	2406	6	1661	11	3424

Other Manufacturing Technology

1000000000	0	1856	0	1027	0	258	0	16	0	1022
2710003070	0	0	0	23	0	0	0	7	0	0
8428900010	16	159	0	0	0	0	0	0	0	0
8456100000	6	466	0	0	1	34	0	0	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	1	69	0	0	0	0	0	0
106050	0	0	0	0	0	0	0	0	0	0
200010	0	0	0	0	0	0	0	0	0	0
200050	0	0	0	0	0	0	0	0	0	0
300000	0	0	0	0	1	43	0	0	0	0
400000	2	113	0	0	0	0	1	11	0	0
8479899040	0	0	1	248	2	294	0	0	6	149
900040	0	0	0	22	0	59	0	0	0	0
8537100030	4	234	17	328	0	0	0	0	10	113
9024100000	0	2	0	116	0	82	0	0	0	92
9031100000	0	18	0	6	0	286	0	0	0	0
300000	0	0	0	0	0	0	0	0	0	12
9032810040	2652	619	10453	547	406	14	0	0	1961	230

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
August 89

Metal Forming

	Japan		Korea		Malaysia		Mexico		Netherlands	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	1	55	0	0
8462100030	1	323	0	0	0	0	0	0	0	0
100050	6	128	1	15	0	0	39	899	0	0
210080	0	0	10	1034	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	2	22	29	788	0	0	6	144	0	0
310080	3	148	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	7	37	0	0
410080	0	0	1	78	0	0	2	1236	5	529
490050	16	183	5	64	0	0	8	43	0	0
910060	1	50	0	0	1	17	0	0	0	0
910090	0	0	4	38	0	0	11	89	0	0
990030	0	0	0	0	0	0	0	0	0	0
990040	0	0	1	86	0	0	5	159	0	0
990060	0	0	1	14	0	0	31	864	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	1	11	0	0	0	0	5	53	0	0
900080	2	33	7	1046	0	0	12	146	4	22
9800000002	2	61	4	78	0	0	74	864	1	12
9900000002	130	23	0	0	0	0	92	86	80	68
Month Tot	164	983	63	3242	1	17	293	4675	90	631
Y-T-D Tot	713	35374	772	44205	22	1340	2439	29749	356	5651
NC YTD To	91	7064	36	3259	6	922	39	3122	19	2326
C&F Month	382	3696	131	5198	11	212	967	9322	107	682
C&F Y-T-D	3032	56490	2088	72185	91	2064	7226	73138	746	9077
C&F NC YTD*	176	13148	94	12541	8	991	159	12687	38	4226

Other Manufacturing Technology

1000000000	0	4279	0	1788	0	1048	0	4926	0	587
2710003070	0	55	0	34	0	4	0	30	0	4
8428900010	0	0	0	0	0	0	0	0	0	0
8456100000	15	1655	1	303	4	840	1	254	1	56
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	7	400	0	0
106050	1	160	0	0	0	0	8	392	0	0
200010	1	819	7	957	0	0	1	5	0	0
200050	17	145	0	0	0	0	11	296	0	0
300000	0	0	18	475	0	0	7	62	0	0
400000	13	47	2	116	0	0	14	355	0	0
8479899040	7	1648	0	0	0	0	1	3	0	0
900040	0	701	0	4	0	0	0	15	0	0
8537100030	4	52	7	108	1	10	0	0	4	108
9024100000	0	819	0	334	0	17	0	348	0	28
9031100000	0	54	0	51	0	15	0	257	0	0
300000	0	599	0	39	0	0	0	0	0	0
9032810040	4678	573	517	73	3	4	675	103	4482	237

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
August 89

Metal Forming

	Singapore		Spain		Switzerland		Taiwan		Thailand	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	0	0	0	0	0	0	0	0	0	0
8462100030	0	0	0	0	0	0	0	0	0	0
100050	0	0	1	125	0	0	0	0	0	0
210080	0	0	0	0	0	0	0	0	0	0
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	1	13	0	0	0	0
310080	0	0	0	0	0	0	0	0	0	0
390050	0	0	0	0	0	0	1	55	0	0
410080	0	0	0	0	0	0	0	0	0	0
490050	7	70	1	13	0	0	0	0	1	25
910060	0	0	0	0	0	0	2	438	0	0
910090	0	0	1	124	2	127	0	0	0	0
990030	1	110	0	0	1	65	0	0	0	0
990040	0	0	0	0	0	0	0	0	0	0
990060	0	0	0	0	0	0	0	0	0	0
8463100080	0	0	0	0	0	0	0	0	0	0
200080	0	0	0	0	0	0	0	0	0	0
300080	1	31	3	64	0	0	0	0	1	108
900080	1	29	0	0	0	0	39	5158	0	0
9800000002	0	0	0	0	0	0	0	0	5	1194
9900000002	5	11	0	0	0	0	0	0	0	0
Month Tot	15	250	6	325	4	205	42	5651	7	1327
Y-T-D Tot	162	6609	92	3251	39	1180	145	11869	66	3234
NC YTD Tot	15	2546	0	0	8	375	10	1395	5	414
C&F Month	35	874	11	348	43	339	64	6018	10	1653
C&F Y-T-D	788	12517	310	6024	267	3934	668	17519	150	5110
C&F NC YTD*	44	4690	1	677	23	1968	25	2619	23	1069

Other Manufacturing Technology

1000000090	0	906	0	449	0	699	0	849	0	363
2710003070	0	42	0	0	0	0	0	127	0	0
8428900010	0	0	0	0	0	0	0	0	0	0
8456100000	0	0	0	0	0	0	4	833	0	0
200000	0	0	0	0	0	0	0	0	0	0
8477106010	0	0	0	0	0	0	0	0	0	0
106050	2	118	0	0	0	0	0	0	0	0
200010	1	60	0	0	0	0	0	0	0	0
200050	0	0	1	200	0	0	10	242	0	0
300000	0	0	0	0	0	0	0	0	0	0
400000	0	0	0	0	4	2	0	0	0	0
8479899040	0	0	8	66	2	15	1	79	0	0
900040	0	0	0	0	0	0	0	9	0	0
8537100030	2	28	4	38	6	76	4	48	2	18
9024100000	0	100	0	8	0	5	0	837	0	41
9031100000	0	52	0	0	0	6	0	5	0	2
300000	0	8	0	0	0	0	0	86	0	0
9032810040	9757	536	362	24	138	14	219	47	0	0

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Forming Machine Tools, Machine Tool Totals and Other Manufacturing Technology
August 89

Metal Forming

	U.K.		USSR		Venezuela		West Germany		All Other	
	Units	$000	Units	$000	Units	$000	Units	$000	Units	$000
8454300010	2	24	0	0	0	0	5	54	3	14
8462100030	0	0	0	0	0	0	2	767	0	0
100050	2	42	0	0	1	18	1	12	10	200
210080	0	0	0	0	0	0	0	0	3	173
290030	0	0	0	0	0	0	0	0	0	0
290040	0	0	0	0	0	0	0	0	0	0
290050	0	0	0	0	0	0	1	22	10	1558
310080	0	0	0	0	0	0	0	0	0	0
390050	1	5	0	0	0	0	0	0	5	103
410080	0	0	0	0	0	0	1	578	2	43
490050	9	1357	0	0	0	0	6	114	9	161
910060	1	42	0	0	0	0	0	0	0	0
910090	1	1078	0	0	1	1125	1	7	0	0
990030	0	0	0	0	0	0	2	50	0	0
990040	10	241	0	0	0	0	0	0	0	0
990060	1	254	0	0	0	0	3	610	11	1713
8463100080	0	0	0	0	0	0	1	7	2	42
200080	0	0	0	0	0	0	0	0	0	0
300080	2	141	0	0	0	0	18	457	15	630
900080	15	170	0	0	0	0	10	739	62	2705
9800000002	10	134	0	0	24	317	4	33	45	1764
9900000002	12	14	0	0	0	0	44	39	50	34
Month Tot	66	3503	0	0	26	1460	99	3489	227	9140
Y-T-D Tot	953	34080	2	108	170	7486	671	17284	2757	52717
NC YTD Tot	49	2555	2	108	3	89	6	904	40	3931
C&F Month	431	11228	14	491	38	1560	215	9186	578	12693
C&F Y-T-D	2876	69009	22	1328	416	12161	1924	38983	5756	76534
C&F NC YTD*	183	23493	16	598	8	372	65	9419	126	11063

Other Manufacturing Technology

1000000000	0	6650	0	4	0	2421	0	7185	0	25040
2710003070	0	7	0	0	0	0	0	31	0	199
8428900010	14	708	0	0	0	0	0	0	20	9
8456100000	0	0	0	0	0	0	6	947	7	124
200000	0	0	0	0	0	0	0	0	1	26
8477106010	0	0	0	0	0	0	3	190	0	0
106050	2	155	0	0	0	0	4	408	1	139
200010	0	0	0	0	0	0	1	19	3	30
200050	11	2077	0	0	0	0	3	48	7	684
300000	2	35	0	0	9	170	0	0	0	0
400000	1	24	0	0	0	0	18	39	9	126
8479899040	14	288	0	0	0	0	101	566	0	0
900040	0	271	0	0	0	0	0	105	0	260
8537100030	92	1151	0	0	0	0	25	328	23	332
9024100000	0	203	0	56	0	11	0	152	0	575
9031100000	0	109	0	0	0	0	0	7	0	633
300000	0	175	0	0	0	0	0	79	0	3
9032810040	8514	590	0	0	901	241	1661	189	3352	300

Note: Product Code 1000000000 represents aggregated machine tool parts codes 8466100010 through 8466940000.
* "C&F NC YTD" does not include code 8456300000.
Note: "0" in units column with corresponding value means that unit measure is not meaningful.

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
August 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
EUROPE						
Bulgaria	0	0	0	0	0	0
Czechoslovakia	0	0	0	0	0	0
Denmark	2	188	4	48	6	236
East Germany	0	0	0	0	0	0
Finland	2	66	0	0	2	66
Greece	4	236	1	5	5	241
Hungary	13	97	0	0	13	97
Iceland	0	0	0	0	0	0
Ireland	2	69	12	1258	14	1327
Luxembourg	0	0	0	0	0	0
Norway	4	10	4	231	8	241
Poland	0	0	2	1423	2	1423
Portugal	0	0	2	165	2	165
Romania	0	0	0	0	0	0
Sweden	6	222	2	43	8	265
Turkey	4	2	5	4	9	6
Yugoslavia	0	0	0	0	0	0
Oth Europe	0	0	0	0	0	0
TOTAL	737	18266	318	12164	1055	30430
NORTH AND CENTRAL AMERICA						
Bahamas	1	40	0	0	1	40
Barbados	1	2	0	0	1	2
Belize	0	0	0	0	0	0
Bermuda	0	0	0	0	0	0
Costa Rica	11	81	1	10	12	91
Dominican Rep	1	6	10	57	11	63
El Salvador	0	0	0	0	0	0
Guatemala	5	8	23	175	28	183
Haiti	0	0	0	0	0	0
Honduras	0	0	2	43	2	43
Jamaica	5	44	0	0	5	44
Panama	3	68	0	0	3	68
Trinidad	1	5	3	14	4	19
Oth N & C Am.	0	0	0	0	0	0
TOTAL	4328	9386	620	7561	4948	16947
SOUTH AMERICA						
Argentina	164	99	2	10	166	109
Bolivia	0	0	0	0	0	0
Chile	8	72	3	823	11	895
Colombia	16	800	20	144	36	944
Ecuador	0	0	2	40	2	40
Paraguay	0	0	0	0	0	0
Peru	0	0	0	0	0	0
Uruguay	0	0	0	0	0	0
Oth South Am.	4	40	0	0	4	40
TOTAL	226	1798	67	3910	293	5708
OCEANIA						
New Zealand	2	15	1	15	3	29
Oth Oceania	0	0	0	0	0	0
TOTAL	29	792	12	179	41	971

U.S. EXPORTS
Metal Cutting and Metal Forming Machine Tool Totals
August 89

	METAL CUTTING		METAL FORMING		TOTAL	
	UNITS	$000	UNITS	$000	UNITS	$000
ASIA						
Bangladesh	0	0	2	1634	2	1634
Hong Kong	55	127	56	1076	111	1203
Iran	0	0	0	0	0	0
Iraq	4	450	0	0	4	450
Israel	5	9	7	235	12	244
Jordan	0	0	0	0	0	0
Kuwait	0	0	1	27	1	27
Laos	0	0	0	0	0	0
Lebanon	0	0	0	0	0	0
Macao	0	0	0	0	0	0
Oman	0	0	0	0	0	0
Pakistan	1	339	2	77	3	415
Philippines	14	98	7	101	21	200
Qatar	0	0	0	0	0	0
Saudi Arabia	5	265	45	1336	50	1601
Sri Lanka	0	0	0	0	0	0
Syria	0	0	0	0	0	0
United Arab Emr	0	0	0	0	0	0
Vietnam	0	0	0	0	0	0
Oth Asia	3	2	0	0	3	2
TOTAL	465	12074	460	16920	925	28994
AFRICA						
Algeria	0	0	0	0	0	0
Botswana	0	0	0	0	0	0
Egypt	2	6	1	27	3	33
Ethiopia	0	0	0	0	0	0
Gabon	0	0	0	0	0	0
Ghana	1	83	0	0	1	83
Guinea	0	0	0	0	0	0
Kenya	0	0	0	0	0	0
Malawi	0	0	0	0	0	0
Mauritius	0	0	0	0	0	0
Morocco	0	0	0	0	0	0
Niger	0	0	0	0	0	0
Nigeria	0	0	0	0	0	0
South Africa	0	0	6	113	6	113
Sudan	0	0	0	0	0	0
Swaziland	0	0	0	0	0	0
Tunisia	0	0	0	0	0	0
Zaire	0	0	0	0	0	0
Zambia	0	0	0	0	0	0
Zimbabwe	1	3	1	4	2	7
Oth Africa	1	4	0	0	1	4
TOTAL	5	96	8	145	13	241

Note: Region totals include top countries detailed by product as well as countries listed above.

Cutting Section Notes:
Total for Metal Cutting and Metal Forming appears in Metal Forming Section.
Product Code 9000000001, Metal cutting machine tools, n.e.c., represents the total of codes: 8461900040 and 8461900080.
n.e.c. - Not elsewhere classified.
* "NC Y-T-D Cutting Total" does not include code 8456300000.